

IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the present application:

1. (Currently amended) An image processing apparatus, comprising:

an accepting unit to accept a request of an integration degree from a user;

a setting unit to determine a number of static images to form each of frames

based on the integration degree accepted by the accepting unit;

a compressing unit to compress and encode image data of static images in accordance with a JPEG 2000 algorithm and generate first code data sets;

a storing unit to store the first code data sets that are compressed by the compressing unit; and

a code sequence converting unit to convert the first code data sets being stored by the storing unit into second code data in conformity with Motion JPEG 2000,

wherein the code sequence converting unit comprises:

a dividing unit to divide each of the first code data sets into a header portion and a code portion;

a header processing unit to generate a new tile part header for a[[the]] selected first code data set, and provide a tile index for each of [[the]] tile part

headers including the new tile part header; and

a synthesizing unit to synthesize the selected first code data set data
~~processed by the header processing unit and the code portion~~ to be the second
code data in conformity with Motion JPEG 2000,

wherein the static images are integrated for each of the frames with the
number of static images determined by the setting unit in the second code data.

2. (Previously presented) The image processing apparatus as claimed in claim 1,
wherein the synthesizing unit synthesizes the first code data sets into a single data
sequence of the second code data where images aligning a plurality of static images are
compressed and encoded.

3. (Previously presented) The image processing apparatus as claimed in claim 1, further
comprising:

a decompressing unit to decompress the first code data sets and the second code
data; and

a displaying unit to display frames showing image data in chronological order at
a display unit after the first code data sets and the second code data are decompressed.

4 -19. (Canceled)

20. (Previously presented) The image processing of claim 1 further comprising:

an image pickup device to image the static images, wherein the compressing unit compresses and encodes image data generated from the image pickup device; and
a decompressing circuit to decompress and decode the code data of the first code data sets or the second code data.

21. (Currently amended) An image processing method comprising:

accepting a request of an integration degree from a user;

determining a number of static images to form each of frames based on the

integration degree accepted from the user; and

compressing and encoding image data of static images in accordance with a JPEG 2000 algorithm and generating first code data sets;

storing the first code data sets that are compressed; and

converting the first code data sets being stored into second code data in conformity with Motion JPEG 2000,

wherein converting the first code data sets comprises:

dividing each of the first code data sets into a header portion and a code portion;

generating a new tile part header for a[[the]] selected first code data set;

providing a tile index for each of [[the]] tile part headers including the new tile part header; and

synthesizing data the selected first code data set~~processed by the header processing unit and the code portions~~ to be the second code data in conformity with Motion JPEG 2000,

wherein the static images are integrated for each of the frames with the number of static images determined by the setting unit in the second code data.

22. (Previously presented) The image processing method defined in claim 21, wherein synthesizing the first code data sets produces a single data sequence of the second code data where images aligning a plurality of static images are compressed and encoded.

23. (Previously presented) The image processing method defined in claim 21 further comprising:

decompressing the first code data sets and the second code data; and

displaying frames showing image data in chronological order at a display unit after the first code data sets and second code data are decompressed.

24. (Canceled)

25. (Previously presented) The image processing method defined in claim 21 further comprising:

using an image pickup device to image the static images, wherein compressing and encoding the image data comprises compressing and encoding image data generated from the image pickup device; and

decompressing and decoding the code data of the first code data sets or the second code data.

26. (Currently amended) An article of manufacture having one or more computer readable storage media storing instructions thereon which, when executed by a computer, cause the computer to perform an image processing method comprising:

accepting a request of an integration degree from a user;

determining a number of static images to form each of frames based on the integration degree accepted from the user;

compressing and encoding image data of static images in accordance with a JPEG 2000 algorithm and generating first code data sets;

storing the first code data sets that are compressed; and

converting the first code data sets being stored into second code data in conformity with Motion JPEG 2000, wherein converting the first code data sets comprises:

dividing each of the first code data sets into a header portion and a code portion;

generating a new tile part header for a[[the]] selected first code data set;

providing a tile index for each of [[the]] tile part headers including the new tile part header; and

synthesizing the selected first code data set ~~data processed by the header processing unit and the code portions~~ to be the second code data in conformity with Motion JPEG 2000,

wherein the static images are integrated for each of the frames with the number of static images determined by the setting unit in the second code data.

27. (Previously presented) The article of manufacture defined in claim 26, wherein synthesizing the first code data sets produces a single data sequence of the second code data where images aligning a plurality of static images are compressed and encoded.

28. (Previously presented) The article of manufacture defined in claim 26 wherein the method further comprises:

decompressing the first code data sets and the second code data; and

displaying frames showing image data in chronological order at a display unit after the first code data sets and the second code data are decompressed.

29. (Canceled)

30. (Previously presented) The article of manufacture defined in claim 26 wherein the method further comprises:

using an image pickup device to image the static images, wherein compressing and encoding the image data comprises compressing and encoding image data generated from the image pickup device; and

decompressing and decoding the code data of the first code data sets or the second code data.